

STAGE 1 - INSTALL TEMPORARY BEARING PLATFORMS

1. ONCE SITE PREPARATION IS COMPLETE AND PILES ARE DRIVEN, BEGIN INSTALLATION OF CRANE MATS FOR THE PLACEMENT OF BOTH ABUTMENTS.
2. IT IS IMPERATIVE THAT THE CRANE OPERATORS FAMILIARIZE THEMSELVES WITH THE LOCATION OF THE OVERHEAD UTILITIES ON THE EASTERN SIDE OF THE ROAD. THESE UTILITIES ARE NOT TO BE MOVED OR ALTERED IN ANY WAY.
3. ENSURE ELEVATION AND POSITION OF CRANE MATS ARE APPROPRIATE FOR THE PLACEMENT OF FA-ABI. MAXIMUM RADIUS OF HC-125 WITH ABUTMENT FA-ABI IS 35 FEET.
4. ENSURE ELEVATION AND POSITION OF CRANE MATS ARE APPROPRIATE FOR THE PLACEMENT OF FA-AB2, AS WELL AS THE PRECAST DECK SLABS. MAXIMUM RADIUS OF HL-150 WITH ABUTMENT FA-AB2 IS 45 FEET.
5. IF UNDESIRABLE SOIL PRESENT IN THE LOCATIONS OF THE CRANE MATS, EXCAVATE 5 FEET, FILL AND COMPACT GRANULAR MATERIAL FOR APPLICABLE AREA.
6. THE CONTRACTOR'S ENGINEER SHALL VERIFY THE STABILITY AND LOCATION OF CRANE MATS.

NOTES:

CRANE MATS: 4'-0" x 20'-0" x 1'-0"

HC125 CRANE MAT LAYOUT:

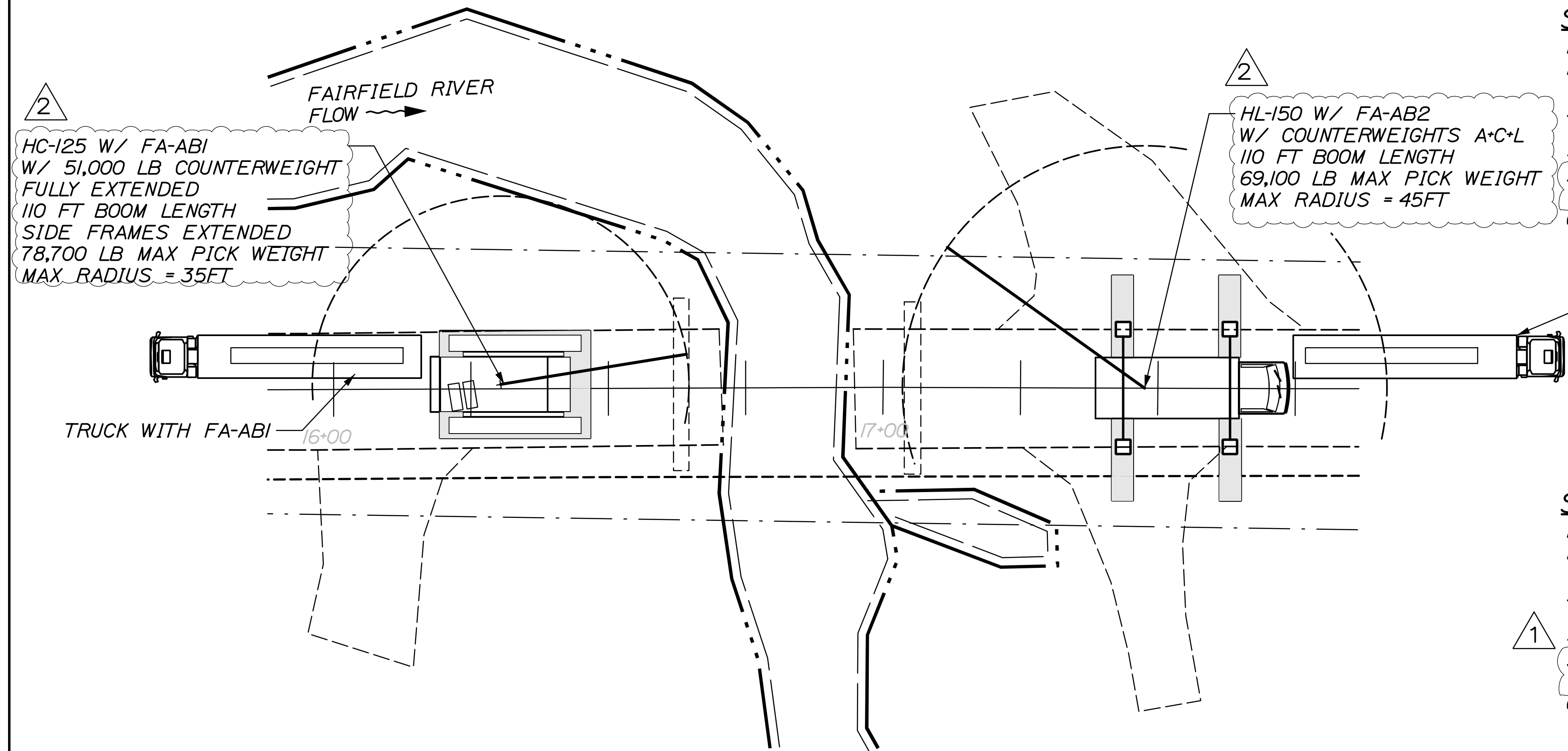
7 MATS LONG x 1 MAT WIDE x 2 MATS DEEP MINIMUM

HL-150 CRANE MAT LAYOUT:

3 MATS STACKED PER OUTRIGGER MINIMUM

DIFFERENTLY SIZED CRANE MATS ORGANIZED TO ACHIEVE THE SAME BEARING AREA AND DEPTH MAY BE SUBSTITUTED AT THE DISCRETION OF THE CONTRACTOR'S ENGINEER.

THE GIVEN STATIONING FOR THE CRANE MATS IS APPROXIMATE. EXACT LOCATIONS SHALL BE DETERMINED BY THE CONTRACTOR'S ENGINEER.



STAGE 2a - INSTALLATION

1. BEGIN INSTALLATION OF FA-ABI, 34.54T WITH HC-125. MAX RADIUS = 35 FEET
2. USE PUSH-PULL BRACES TO STABILIZE ABUTMENT AND TO ENSURE ABUTMENT IS PLUMB. VERIFY EXACT LAYOUT OF ϕ BEARING.
3. ENSURE ELEVATIONS AND POSITIONS ARE CORRECT ON PIECE, INSTALL RAPID SETTING CONCRETE IN ABUTMENT PILE CAVITIES (ITEM 900.607, SPECIAL PROVISIONS)
4. ALLOW CONCRETE TO REACH THE CONTRACT REQUIRED STRENGTH OF 3500 PSI.
5. REMOVE TIMBER BLOCKING AND WASTE BLOCKS AT BOTTOM OF ABUTMENT AND PLACE STONE FILL PER CONTRACT DETAILS.
6. LEAVE PUSH-PULL BRACES IN PLACE UNTIL PRESTRESSED SLABS CONNECTED.

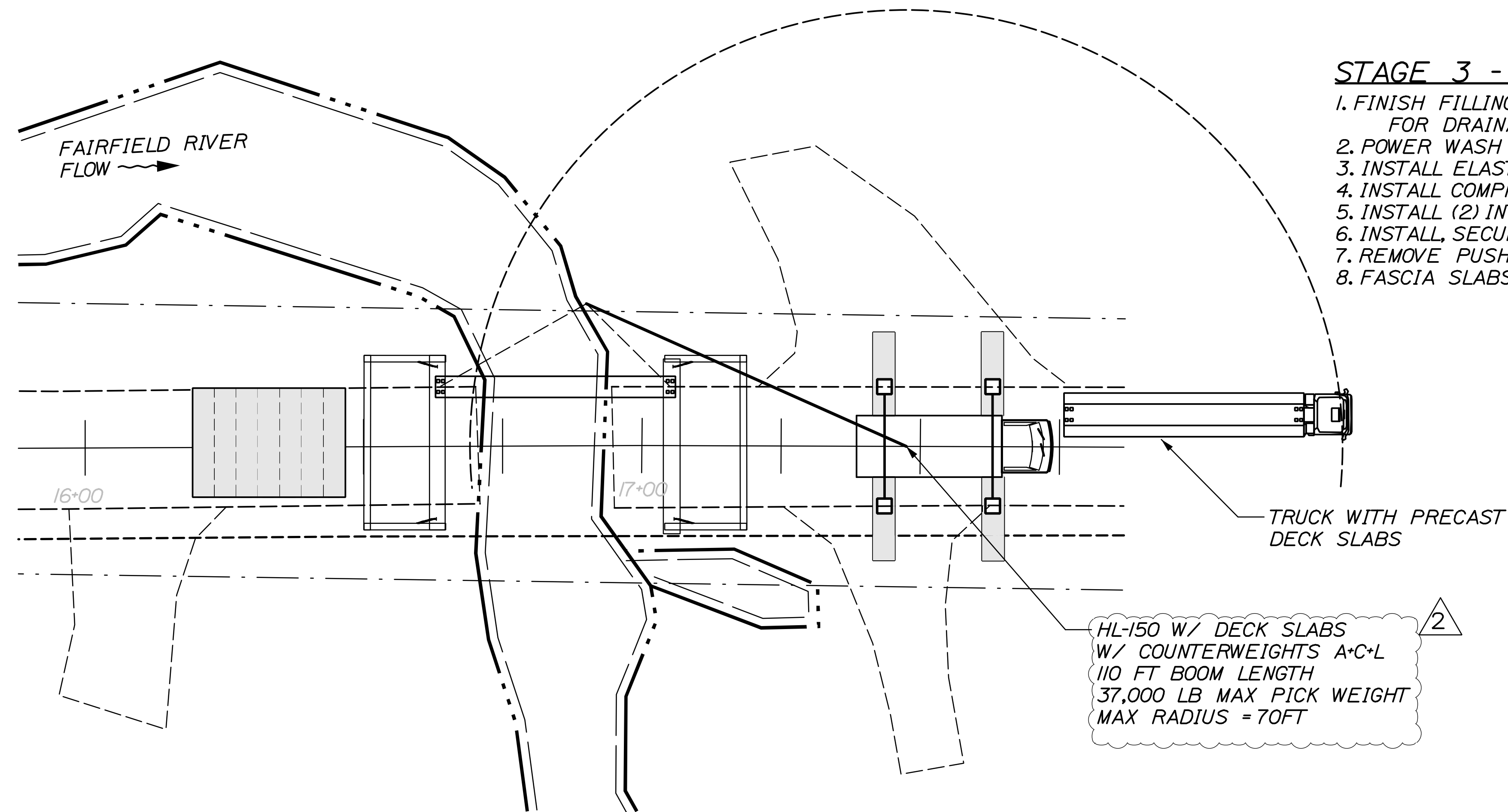
STAGE 2b - INSTALLATION

1. BEGIN INSTALLATION OF FA-AB2, 34.54T WITH HL-150. MAX RADIUS = 45 FEET
2. USE PUSH-PULL BRACES TO STABILIZE ABUTMENT AND TO ENSURE ABUTMENT IS PLUMB. VERIFY EXACT LAYOUT OF ϕ BEARING.
3. ENSURE ELEVATIONS AND POSITIONS ARE CORRECT ON PIECE, INSTALL RAPID SETTING CONCRETE IN ABUTMENT PILE CAVITIES (ITEM 900.607, SPECIAL PROVISIONS)
4. ALLOW CONCRETE TO REACH THE CONTRACT REQUIRED STRENGTH OF 3500 PSI.
5. REMOVE TIMBER BLOCKING AND WASTE BLOCKS AT BOTTOM OF ABUTMENT AND PLACE STONE FILL PER CONTRACT DETAILS.
6. LEAVE PUSH-PULL BRACES IN PLACE UNTIL PRESTRESSED SLABS CONNECTED.

NOTE:

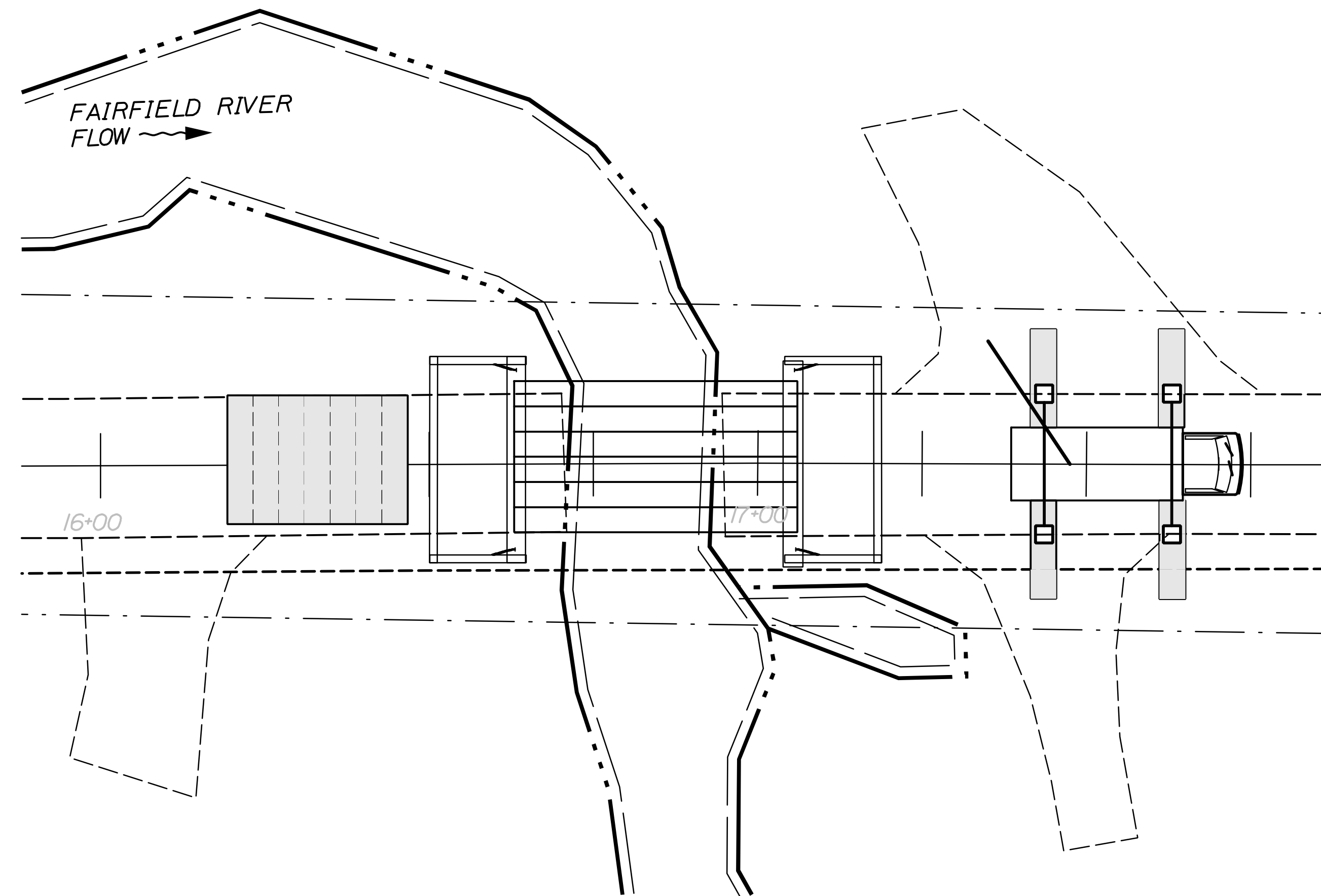
BOTH ABUTMENTS MAY BE ERECTED AT THE SAME TIME SHOULD THE CONTRACTOR CHOOSE. BOTH ABUTMENTS WILL REQUIRE A DEADMAN STABILIZATION SYSTEM BEFORE PRESTRESSED SLABS ARE ERECTED.

CALDERWOOD ENGINEERING, ETC. STRUCTURAL ENGINEERING • DETAILING SERVICES 222 RIVER RD. RICHMOND, ME 04357 PH: (207) 731-2007 FAX: (207) 731-2008	PREPARED FOR: A.L. ST. ONGE CONTRACTOR, INC VTAOT PROJ. NUMBER BRP-0281(25) CEE 38-MI-15
	DATE: 4/15 BY: TEPA CHECKED: REVIEWED
STATE OF VERMONT No. 8711 STRUCTURAL LICENSED PROFESSIONAL ENGINEER	P.E. NUMBER: 8711 DATE: APR 2015
FAIRFIELD-VT SOUTH ROAD OVER FAIRFIELD RIVER	ASSEMBLY PLAN
SHEET NUMBER 1	



STAGE 3 - INSTALLATION

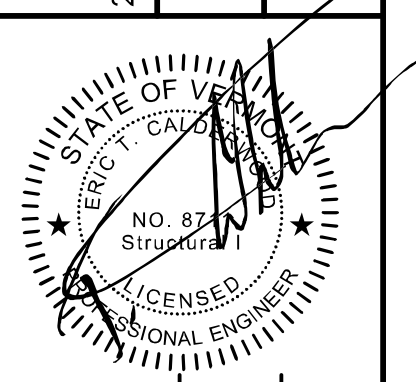
1. FINISH FILLING RECESS IN PILE CAPS WITH APPROVED GROUT - FINISH TOP WITH PROPER GRADE FOR DRAINAGE.
2. POWER WASH ALL EXTERIOR SURFACES THAT WILL COME INTO CONTACT WITH GROUT.
3. INSTALL ELASTOMERIC BEARING PADS ON FA-ABI AND FA-AB2.
4. INSTALL COMPRESSIBLE SEALER SELF ADHESIVE IN POST TENSIONING SLEEVES IN DECK SLABS.
5. INSTALL (2) INTERIOR PRECAST CONCRETE DECK SLABS (FA-SSI)
6. INSTALL, SECURE, AND GROUT ANCHOR RODS FOR PLACED INTERIOR SLABS.
7. REMOVE PUSH-PULL BRACES AND PLACE ALL OTHER DECK SLABS.
8. FASCIA SLABS SHALL BE PLACED SNUG AGAINST CORK ON INTERIOR OF CHEEKWALL.



STAGE 4 - INSTALLATION

1. INSTALL AND SECURE REMAINING ANCHOR RODS ACCORDING TO CONTRACT DETAILS.
2. GROUT ANCHOR RODS IN ABUTMENT ANCHOR ROD CAVITIES.
3. INSTALL BACKER RODS BELOW THE BOTTOM OF ALL SHEAR KEYS.
4. INSTALL POST-TENSIONING STRANDS AND TENSION TO 3 KIPS TO REMOVE SAG AND SEAT CHUCK.
5. PUMP GROUT FROM THE LOW END OF THE BRIDGE SEAT THROUGH THE ANCHOR BOLT DUCTS CLOSEST TO THE FASCIA TO FILL THE VOID BETWEEN THE SEAT AND THE BOTTOM OF THE PRECAST DECK SLABS. CONTINUE TO PUMP GROUT UNTIL ALL ANCHOR DUCTS ARE FULL.
6. INSTALL ANCHOR PLATES, WASHERS, AND NUTS FOR ALL ANCHOR BOLTS.
7. GROUT SHEAR KEYS FULLY. ALLOW GROUT TO CURE IN ACCORDANCE WITH SUBSECTIONS 510.13 AND 510.14. THE CONTRACTOR SHALL MOLD AND CURE A SUFFICIENT AMOUNT OF CUBES DURING THE GROUT PLACEMENT FOR TESTING.
8. FULLY TENSION TRANSVERSE TENDONS PER CONTRACT DRAWINGS.

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P.E. NUMBER
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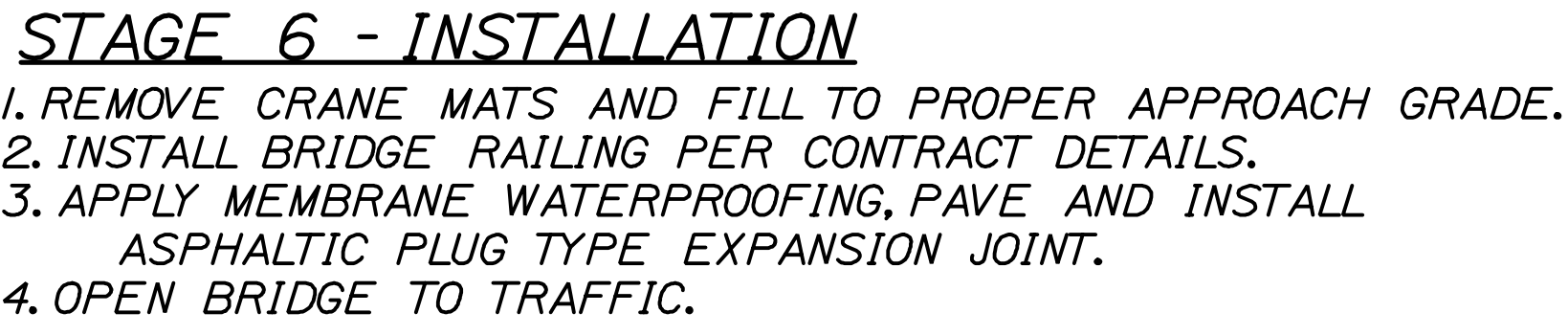
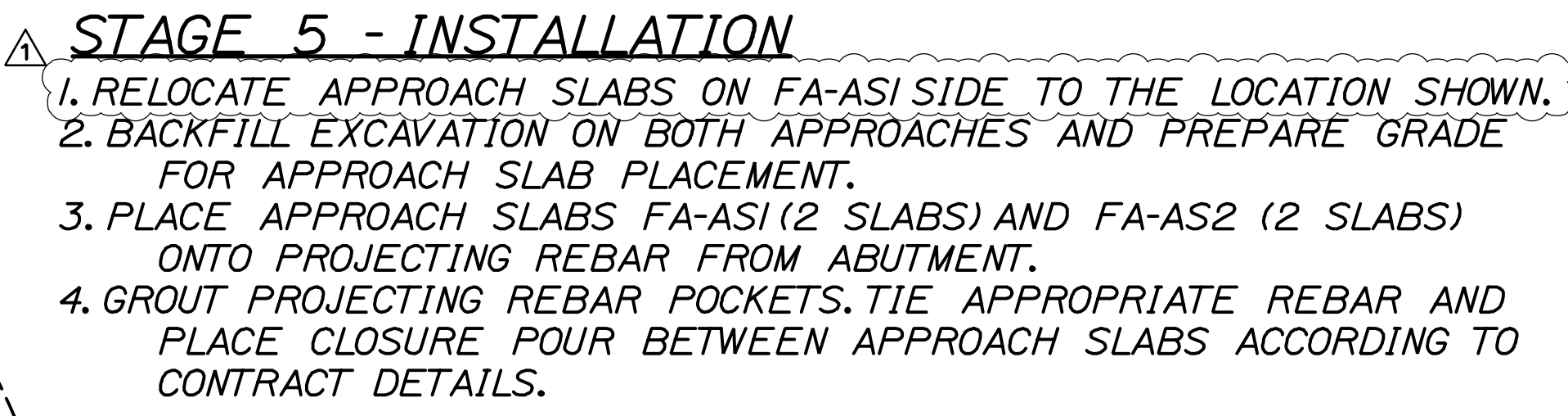
DESIGN-DETAILED	CHECKED-REVIEWED	BY	DATE
		TEPA	4/15
		CM	4/15
REVISIONS 1		TEPA	5/15
REVISIONS 2		TEPA	5/15
REVISIONS 3			
REVISIONS 4			
FIELD CHANGES			

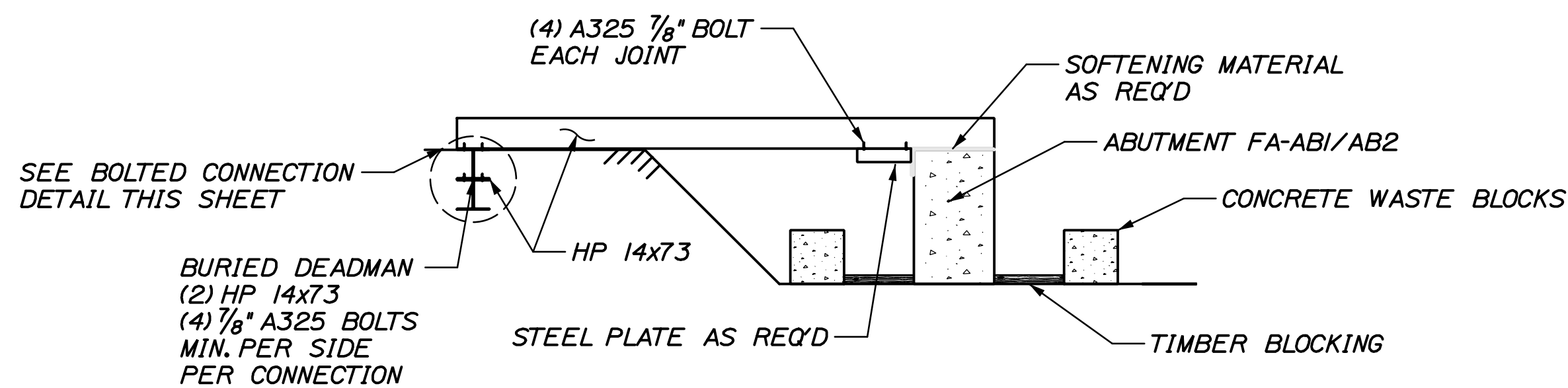
FAIRFIELD-VT SOUTH ROAD
OVER FAIRFIELD RIVER
ASSEMBLY PLAN

SHEET NUMBER

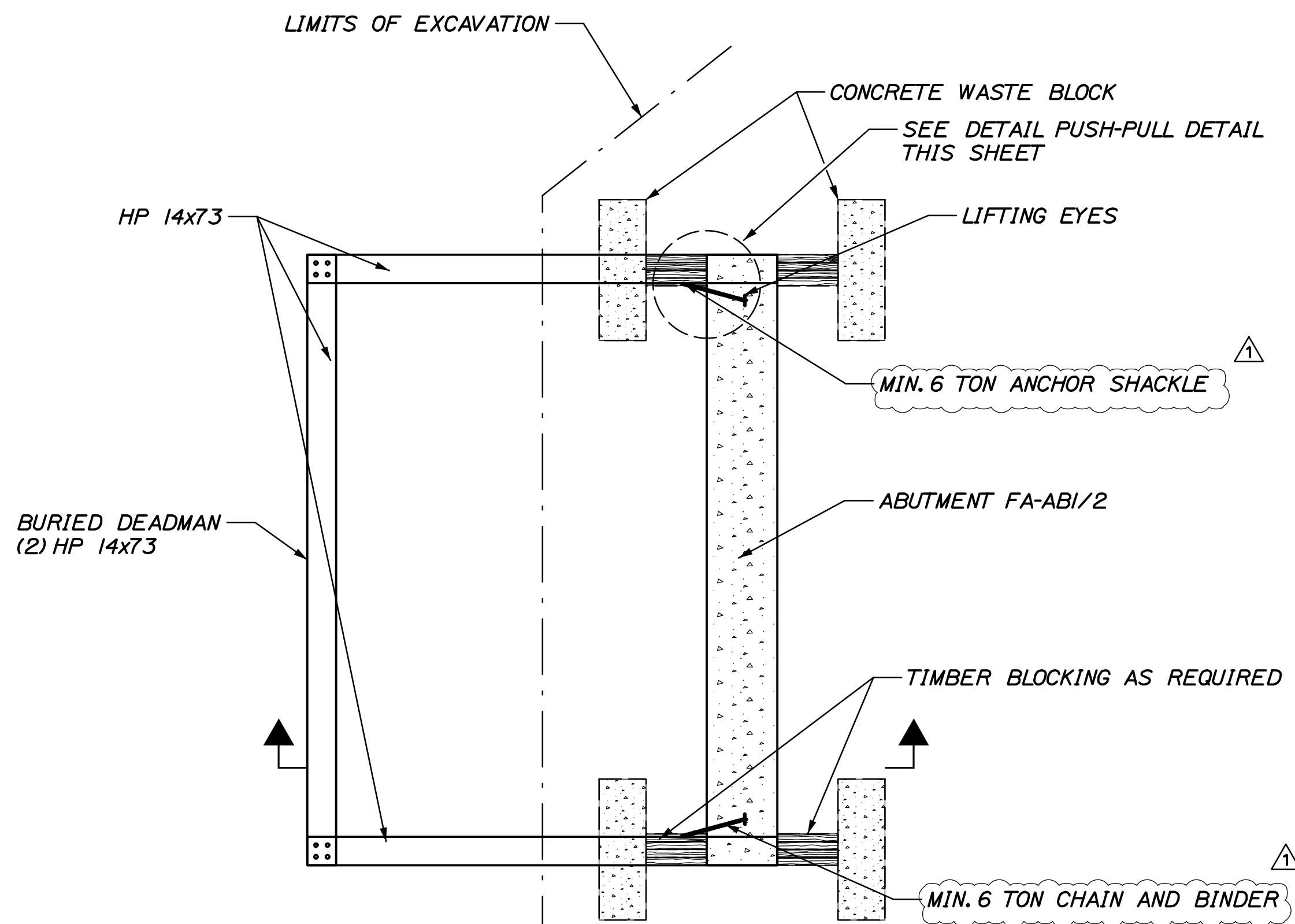
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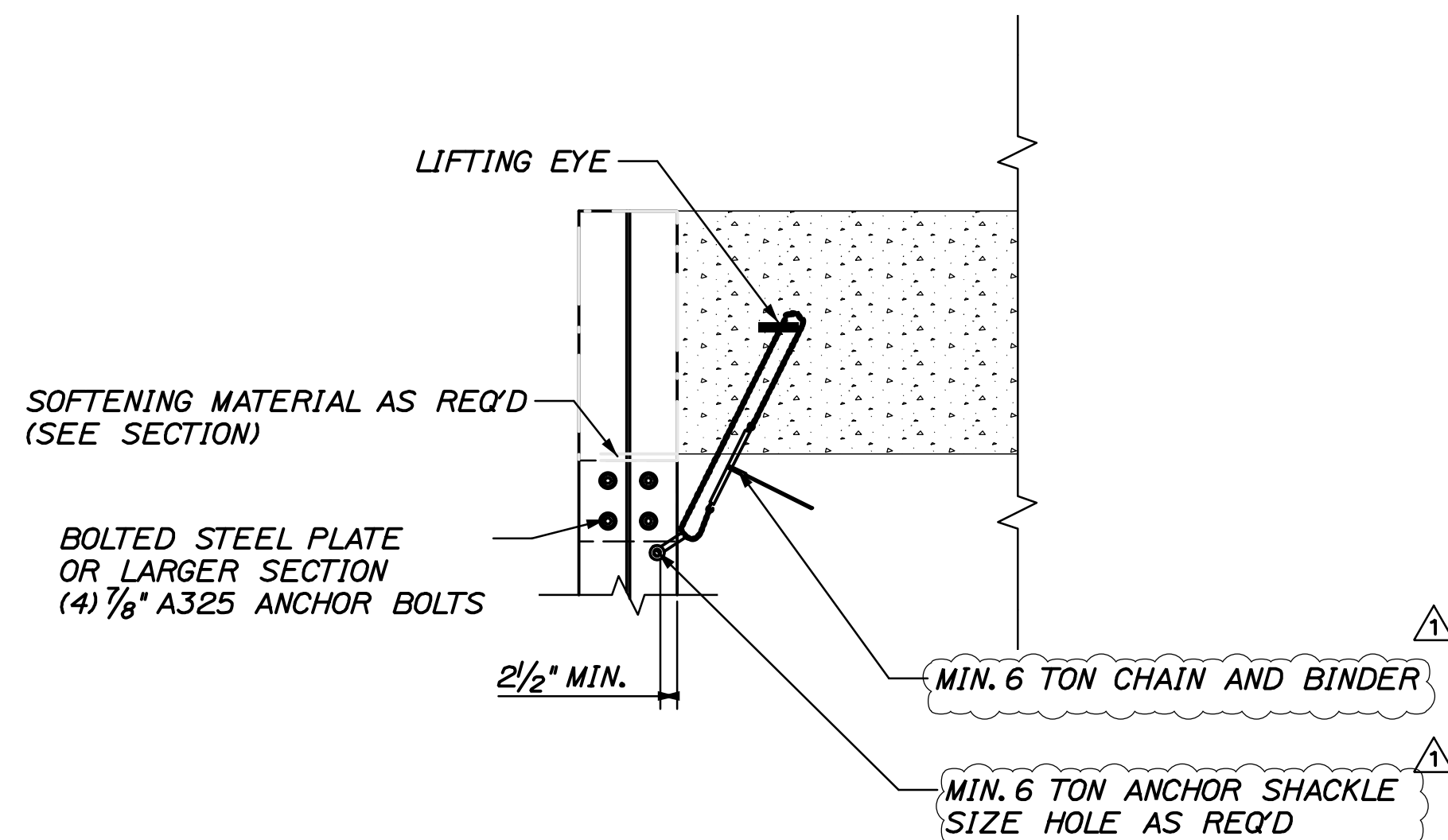




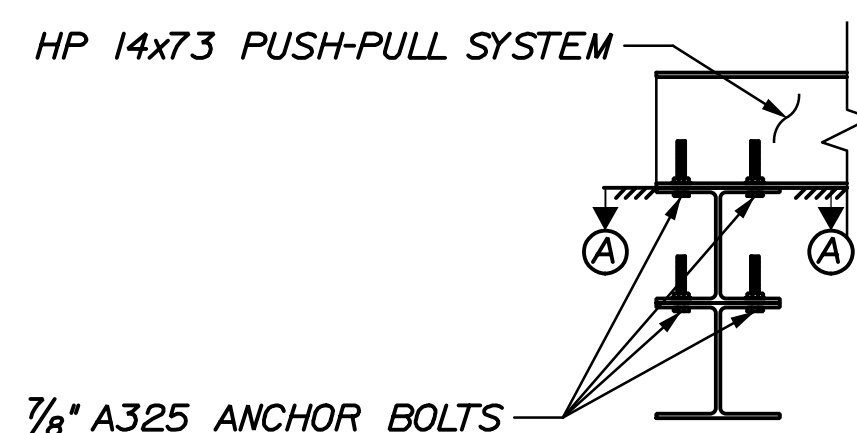
ABUTMENT DEADMAN SET UP SECTION
NOT TO SCALE



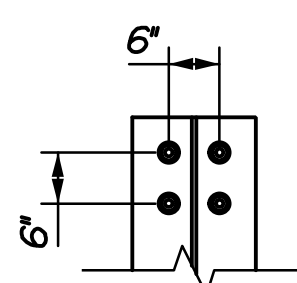
ABUTMENT DEADMAN SET UP PLAN
NOT TO SCALE



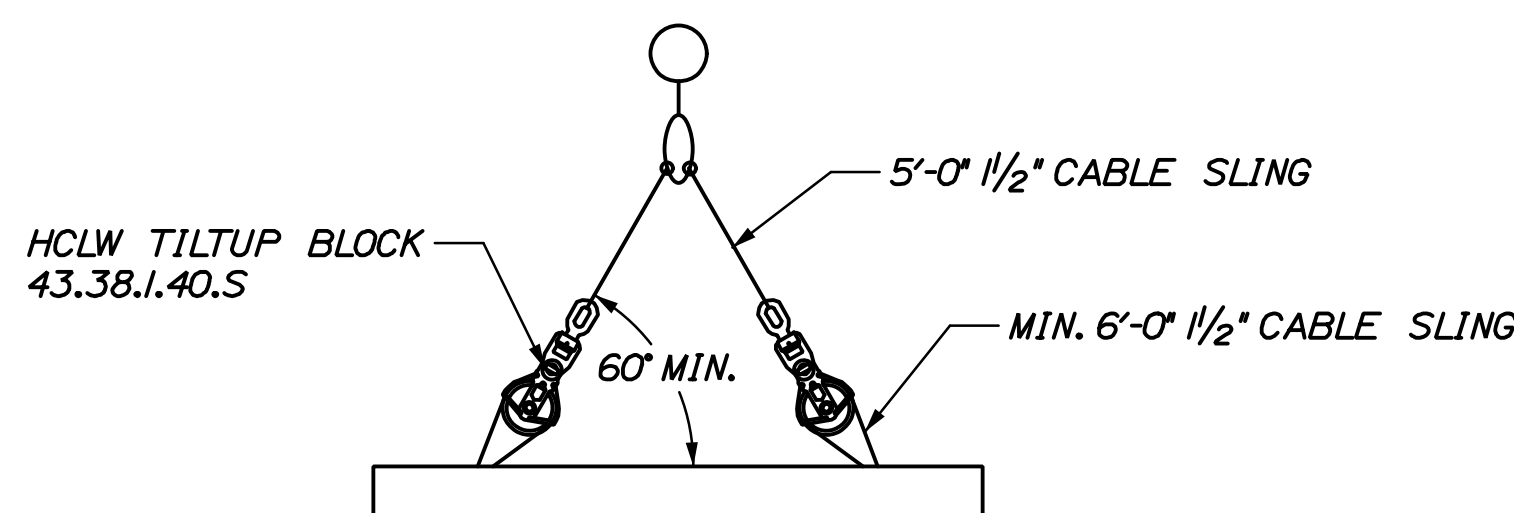
PUSH-PULL DETAIL
NOT TO SCALE



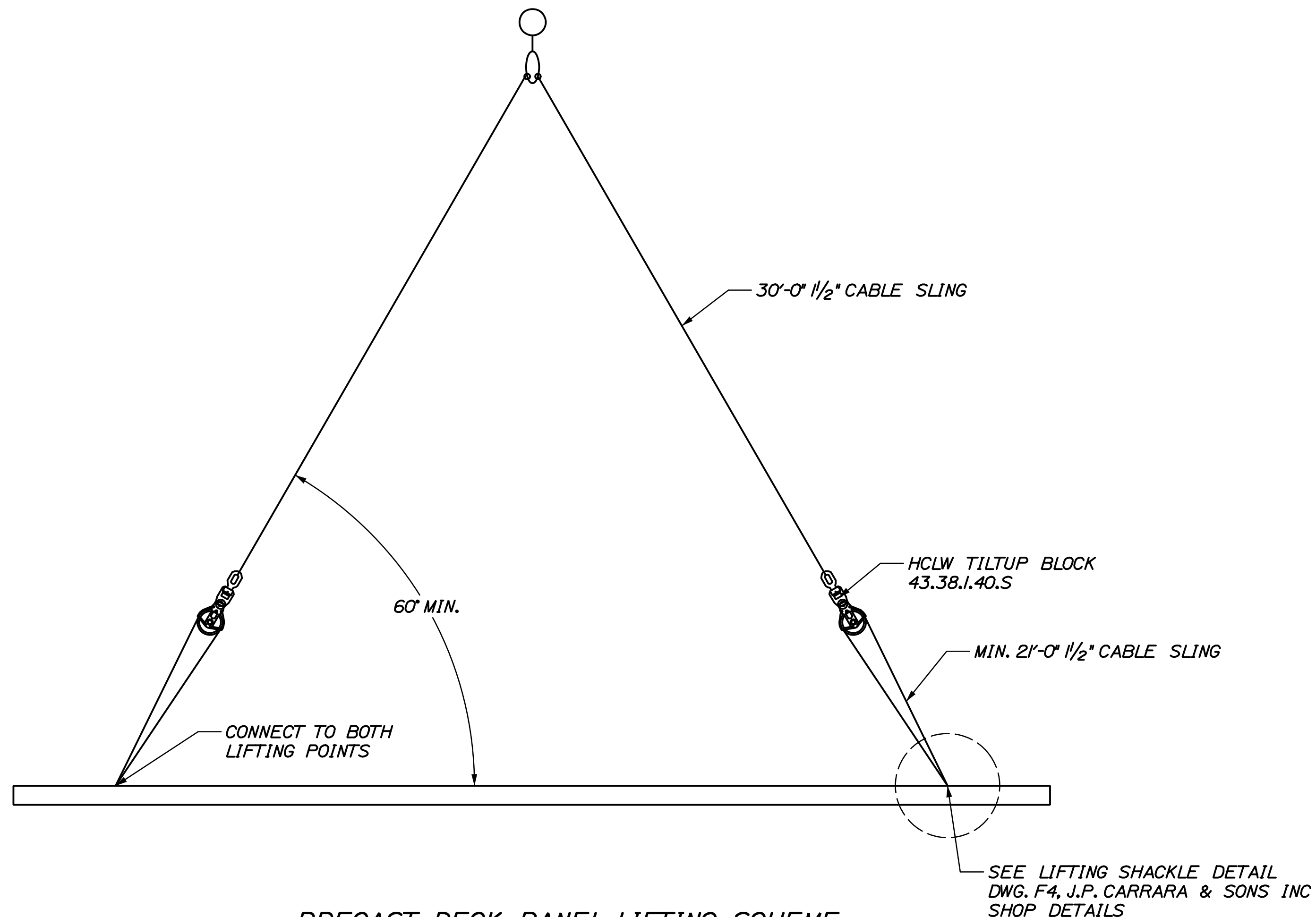
BOLTED CONNECTION DETAIL
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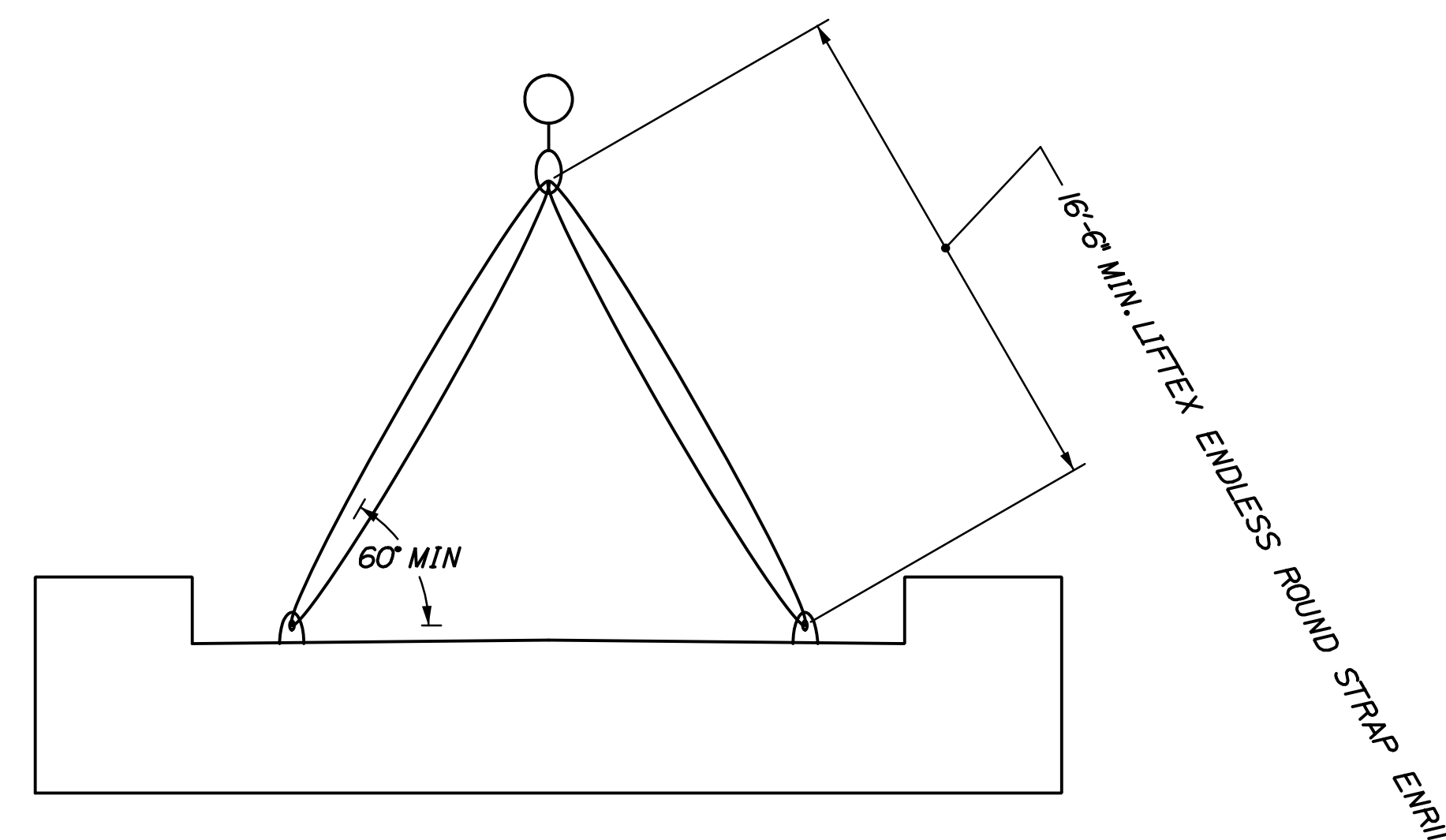
SECTION A
NOT TO SCALE



APPROACH SLAB LIFTING SCHEME
NOT TO SCALE



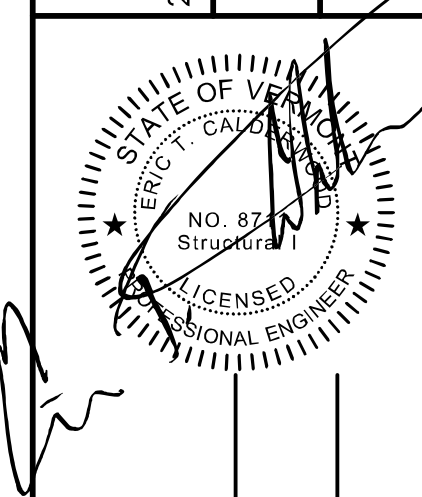
PRECAST DECK PANEL LIFTING SCHEME
NOT TO SCALE



ABUTMENT LIFTING SCHEME
NOT TO SCALE

NOTE:
AN EQUIVALENT STRAP MAY BE SUBSTITUTED
AT THE CONTRACTORS DISCRETION.

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4/15	TEPA							
4/15	GM							
5/15	TEPA							
5/15	TEPA							

**FAIRFIELD-VT SOUTH ROAD
OVER FAIRFIELD RIVER**
MISCELLANEOUS DETAILS

SHEET NUMBER

4

